**AP STAT- Practice on second half of Ch. 4**

Find the 5 # summary for the following sets of data

1) {5, 8, 10, 12, 15, 20, 22, 28, 33, 34, 35, 40}

2) {45, 50, 55, 51, 52, 60, 66, 67, 68, 72, 77, 78, 80, 81, 82, 90}

Find the mean and standard deviation of each data set.

3) {2, 4, 6, 8, 11, 14} 4) {12, 11, 14, 15, 14, 11, 13, 21}

5) {-3, 7, -9, 11, -5, 3, 4, -2} 6) {1.2, 3.2, 5.2, 1.6, 0.7, 2.4, 2.8, 3.6}

The following are quiz scores from two Algebra 1 Classes.

*Class 1: 68, 93, 53, 100, 77, 86, 91, 88, 72, 74, 66, 82*

*Class 2: 77, 91, 82, 68, 75, 72, 85, 65, 70, 79, 94, 86*

7) Compare the means of the class scores. Which would you rather be in?

8) Compare the standard deviations. Which class was more consistent in their scores?

Based solely on the mean and median given, decide on the shape of the distribution

9) Mean = 100 10) Mean = 20 11) Mean = 934

Median = 98 Median = 41 Median = 850

Given the data below, decide which is more appropriate to report:

the mean and std. deviation, or the median and 5# summary

12) {3, 4, 4, 4, 5, 6, 6, 7, 8, 10, 11, 11, 16, 17, 20, 25, 28, 30, 31, 39, 45, 59, 68, 73}

13) {15, 20, 22, 25, 28, 30, 31, 32, 33, 34, 35, 36, 36, 37, 37, 38, 38, 40, 41, 45, 47, 51, 52, 57, 42, 49, 48, 51}